

# INTERNATIONAL SEARCH REPORT

Intern: Application No  
PCT/US 03/31249

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61M5/32 A61M5/50

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 269 760 A (BINA DALE C) 14 December 1993 (1993-12-14) column 4, line 62 -column 5, line 51; figures 3-5	1-25
Y	US 5 222 945 A (BASNIGHT ROBERT W) 29 June 1993 (1993-06-29) column 6, line 10 - line 44; figures 13,14	1-25
Y	US 5 232 455 A (HOLLISTER WILLIAM H) 3 August 1993 (1993-08-03) figures 1-11	1-25
Y	EP 0 997 159 A (BECTON DICKINSON CO) 3 May 2000 (2000-05-03) figures 2-6,10,13-16,18	1-25
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \* & \* document member of the same patent family

Date of the actual completion of the international search

10 February 2004

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18/02/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 413 414 A (TSAO CHIEN HUA) 20 February 1991 (1991-02-20) figure 4 ----	6-9
A	US 5 106 372 A (RANFORD ALAN B) 21 April 1992 (1992-04-21) figures 1-9 ----	1-25
A	US 4 775 364 A (ALLES ANTHONY) 4 October 1988 (1988-10-04) column 3, line 42 - line 45; figure 6 -----	2, 17, 19

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Information on patent family members

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5269760	A	14-12-1993	NONE	
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